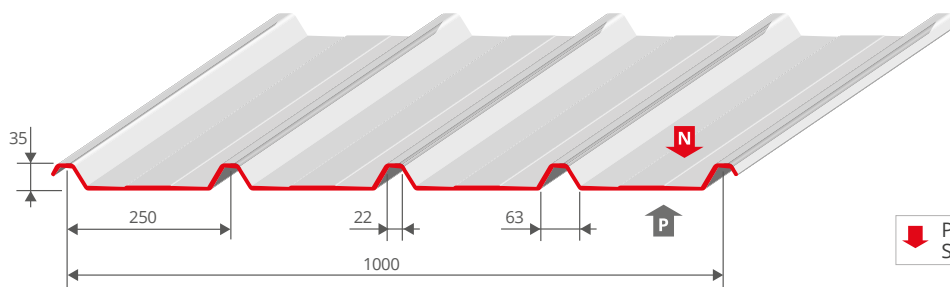


COVEO 4.35



THICKNESS mm	WEIGHT kg/m ²
0.63	5.86
0.75	6.98

Pre-painted Surface

STANDARD COATINGS

Steel S 320 GD	Thickness mm	Standards
Galva	0.63/0.75	NF EN 10346 / NF P 34-310
Polyester 25μ/35μ	0.63/0.75	NF EN 10169 / NF P 34-301
Other coatings	on request	NF EN 10169 / NF P 34-301

CSTB

TEST REPORT NO. EM99-041

Deflection tests according to NF P 34-503 of November 1995. DTU 40-35 (NF P 34-205-1 May 1997)

CALCULATION VALUES nominal thicknesses in mm

	symbol	units	0.63	0.75
Surface weight	m	kg/m ²	5.86	6.98
Load due to profile weight	g	daN/m ²	5.74	6.84

DOWNWARD LOAD ACTION		symbol	units	0.63	0.75
Moment of inertia single span		I_2	cm ⁴ /m	9.29	11.05
two equal spans		I_3	cm ⁴ /m	8.22	9.79
multiple spans		I_m	cm ⁴ /m	8.75	10.42
Bending moments at mid-span	<i>elastic syst.</i>	M_{d2T}	m.daN/m	122.01	145.25
	<i>elasto-plastic syst.</i>	M_{d3T}	m.daN/m	174.62	207.88
	on supports	M_{d3A}	m.daN/m	115.41	137.39
	under point load	M_c	m.daN/m	105.20	125.24
Reaction on supports		R_d	daN/m	694.52	826.81

UPLIFT LOAD ACTION			RIB FIXING				VALLEY FIXING			
			all ribs attached		2 out of 4 ribs attached		all ribs attached		2 out of 3 ribs attached	
	symbol	units	0.63	0.75	0.63	0.75	0.63	0.75	0.63	0.75
Bending moments										
at mid-span <i>elastic syst.</i>	M_{a2T}	m.daN/m	135.34	161.12	67.67	80.56	135.34	161.12	67.67	80.56
at mid-span <i>elasto-plastic system</i>	M_{a3T}	m.daN/m	161.15	191.85	80.58	95.92	161.15	191.85	80.58	95.92
on supports	M_{a3A}	m.daN/m	120.32	143.24	60.16	71.62	120.32	143.24	60.16	71.62
Breakout force at support	S_a	daN/m	514.74	612.79	257.37	306.39	514.74	612.79	257.37	306.39
Under uplift load action, the useful spans are valid if the calculated characteristic strength (Pk/m) is more than or equal to the values given in daN:			189	225	189	225	151	180	126	150

MAX. SPAN TABLE IN METRES ACCORDING TO NOMINAL LOADS fy: 320MPa - nominal thicknesses in mm

DOWNWARD LOADS						UNWEIGHTED LIVE LOAD daN/m²	UPLIFT LOADS									
SINGLE SPAN		2 EQUAL SPANS		MULTIPLE SPANS			SINGLE SPAN		2 EQUAL SPANS				MULTIPLE SPANS			
									all ribs attached		2 out of 4 ribs attached		all ribs attached		2 out of 4 ribs attached	
0.63	0.75	0.63	0.75	0.63	0.75		0.63	0.75	0.63	0.75	0.63	0.75	0.63	0.75	0.63	0.75
2.10	2.45	2.40	2.85	2.40	2.85	50	2.10	2.45	2.40	2.85	2.40	2.85	2.40	2.85	2.40	2.85
2.10	2.30	2.40	2.85	2.40	2.80	75	2.10	2.45	2.40	2.85	2.40	2.60	2.40	2.85	2.40	2.60
2.00	2.10	2.40	2.75	2.40	2.55	100	2.10	2.45	2.40	2.85	1.80	2.15	2.40	2.85	1.80	2.15
1.85	1.95	2.40	2.55	2.25	2.40	125	2.10	2.45	2.40	2.85	1.40	1.70	2.40	2.85	1.40	1.70
1.75	1.85	2.20	2.40	2.15	2.25	150	2.10	2.45	2.35	2.55	1.15	1.40	2.35	2.55	1.15	1.40
1.65	1.75	2.05	2.25	2.05	2.15	175	2.00	2.25	2.00	2.35	1.00	1.20	2.00	2.35	1.00	1.20
1.60	1.70	1.95	2.10	1.95	2.05	200	1.75	2.10	1.75	2.10	0.90	1.05	1.75	2.10	0.90	1.05
1.55	1.60	1.85	2.00	1.85	2.00	225										
1.50	1.55	1.75	1.90	1.75	1.90	250										